

WHAT IS CLAIMED IS:

1. A vehicular communication apparatus that is installed in a vehicle and that is designed to establish bidirectional communication with a foreign moving object,

5 comprising:

a collection device that collects a plurality of pieces of information on the vehicle obtained therefrom;

a selection device that selects pieces of information to be transmitted to the foreign moving object from the collected pieces of information on the vehicle; and

10 a transmission device that transmits only the selected pieces of information to the foreign moving object.

2. The vehicular communication apparatus according to claim 1, wherein the selection device selects pieces of information to be transmitted in accordance with a type
15 of the foreign moving object.

3. The vehicular communication apparatus according to claim 1, wherein the selection device selects pieces of information to be transmitted in accordance with a request made by the foreign moving object.
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4. The vehicular communication apparatus according to claim 1, wherein the selection device selects pieces of information to be transmitted in accordance with a relationship between the vehicle and the foreign moving object.

25 5. The vehicular communication apparatus according to claim 1, wherein the selection device selects pieces of information to be transmitted in accordance with a relationship between the vehicle and the foreign moving object and a circumstance in which the vehicle runs.

30 6. The vehicular communication apparatus according to claim 1, further comprising an emergency level determination device that determines an emergency level of bidirectional communication with the foreign moving object on the basis of a relationship between the vehicle and the foreign moving object, wherein the selection device adds the

emergency level determined by the emergency level determination device to the pieces of information to be transmitted.

5 7. The vehicular communication apparatus according to claim 6, wherein the emergency level is determined in accordance with a possibility that concerns a collision or a scrape between the vehicle and the foreign moving object and that is predicted on the basis of the relationship between the vehicle and the foreign moving object.

10 8. The vehicular communication apparatus according to claim 6, further comprising a communication frequency-degree change device that changes a degree of frequency of communication with the foreign moving object in accordance with the determined emergency level.

15 9. The vehicular communication apparatus according to claim 6, further comprising a communication object determination device that determines, in accordance with the determined emergency level, a foreign moving object to establish communication with.

20 10. The vehicular communication apparatus according to claim 1, wherein the selection device selects pieces of information to be transmitted in accordance with an emergency level which is determined in accordance with a relationship between the vehicle and the foreign moving object and a circumstance in which the vehicle runs.

25 11. A vehicular communication apparatus that is installed in a vehicle and that is designed to establish bidirectional communication, comprising:

 a transmission device that transmits a certain piece of information including an identification code allowing the foreign moving object to identify the vehicle;

 a reception device that receives the piece of information including the identification code from the foreign moving object;

30 a detection device that detects establishment of bidirectional communication between the vehicle and the foreign moving object on the basis of a result of identification of the identification code;

 a collection device that collects a plurality of pieces of information on the vehicle obtained therefrom; and

a selection device that selects pieces of information to be transmitted to the foreign moving object from the collected pieces of information on the vehicle,

wherein the transmission device transmits the pieces of information selected by the selection device to the foreign moving object if the detection device detects

5 establishment of bidirectional communication.

12. A communication apparatus installed in a moving object and that is designed to establish bidirectional communication with the vehicular communication apparatus according to claim 7, comprising:

10 a moving-object reception device that receives selected pieces of information transmitted from the vehicular transmission device of the vehicular communication apparatus;

a moving-object emergency level evaluation device that evaluates the emergency level included in the received pieces of information; and

15 a moving-object processing change device that changes a method of processing the received pieces of information in accordance with the emergency level.

13. The communication apparatus according to claim 12, wherein the emergency level is determined in accordance with a possibility that concerns a collision or a scrape between the vehicle and the foreign moving object and that is predicted on the basis of a relationship between the vehicle and the foreign moving object.

14. The communication apparatus according to claim 12, wherein the vehicular communication apparatus further comprises a vehicular communication frequency-degree change device that changes a degree of frequency of communication with the foreign moving object in accordance with the determined emergency level.

15. The communication apparatus according to claim 12, further comprising a moving-object emergency level determination device that determines an emergency level of bidirectional communication with the vehicular communication apparatus on the basis of a relationship between the moving object and the vehicle, wherein the moving-object processing change device changes a method of processing the received pieces of information in accordance with the determined emergency level and the emergency level included in the received pieces of information.

16. The communication apparatus according to claim 15, further comprising:
a moving-object collection device that collects a plurality of pieces of
information on the moving object obtained therefrom;
5 a moving-object selection device that selects pieces of information to be
transmitted to the vehicular communication apparatus from the collected pieces of
information on the moving object; and
a moving-object frequency-degree change device that changes a degree of
frequency of communication with the vehicular communication apparatus in accordance
10 with at least one of the emergency level included in the received pieces of information and
the determined emergency level.

17. A vehicular communication apparatus that is installed in a vehicle and that is
designed to establish bidirectional communication with a foreign moving object,
15 comprising:
collection means for collecting a plurality of pieces of information on the vehicle
obtained therefrom;
selection means for selecting pieces of information to be transmitted to the
foreign moving object from the collected pieces of information on the vehicle; and
20 transmission means for transmitting only the selected pieces of information to the
foreign moving object.

18. The vehicular communication apparatus according to claim 17, further
comprising emergency level determination means for determining an emergency level of
25 bidirectional communication with the foreign moving object on the basis of a relationship
between the vehicle and the foreign moving object, wherein the selection means adds the
emergency level determined by the emergency level determination means to the pieces of
information to be transmitted.

30 19. A vehicular communication apparatus that is installed in a vehicle and that is
designed to establish bidirectional communication, comprising:
transmission means for transmitting a certain piece of information including an
identification code allowing the foreign moving object to identify the vehicle;

reception means for receiving the piece of information including the identification code from the foreign moving object;

detection means for detecting establishment of bidirectional communication between the vehicle and the foreign moving object on the basis of a result of identification of the identification code;

collection means for collecting a plurality of pieces of information on the vehicle obtained therefrom; and

selection means for selecting pieces of information to be transmitted to the foreign moving object from the collected pieces of information on the vehicle,

wherein the transmission means transmits the pieces of information selected by the selection means to the foreign moving object if the detection means detects establishment of bidirectional communication.

20. A communication apparatus installed in a moving object and that is designed to establish bidirectional communication with the vehicular communication apparatus according to claim 18, comprising:

moving-object reception means for receiving selected pieces of information transmitted from the vehicular transmission means of the vehicular communication apparatus;

moving-object emergency level evaluation means for evaluating the emergency level included in the received pieces of information; and

moving-object processing change means for changing a method of processing the received pieces of information in accordance with the emergency level.